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In reply to Office Action mailed: December 23, 2004
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Amendments to the Claims

Please amend the claims without prejudice, as follows and consider the subsequent remarks. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A physical property sensor die for monitoring the properties of a fluid, comprising:

a substantially solid insulating sensor body having a front surface and a back surface, wherein the front surface is adapted to be disposed more proximate the fluid than the back surface interface with the fluid, and the sensor body having a known thermal conductivity, wherein the sensor body has a plurality of openings extending from the front surface to the back surface;

a plurality of independent sensing elements coupled to the front surface and encapsulated in a surround material around and between the sensing elements for monitoring the properties of the fluid, the plurality of independent sensing elements